

甘、宁棘豆属三新种

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THREE NEW SPECIES OF THE GENUS OXYTROPIS DC. (LEGUMINOSAE) FROM GANSU AND NINGXIA OF CHINA

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Key words *Oxytropis*; *O. longipedunculata*; *O. ganningensis*; *O. ningxiaensis*
关键词 棘豆属; 长梗棘豆; 陇东棘豆; 六盘山棘豆

长梗棘豆 新种 图 1

Oxytropis longipedunculata C. W. Chang, sp. nov. (Sect. Mesogaea Bge.).

Similis *O. alajicae* Drob., a qua planta majore (nec 5—10 cm alta), foliolis 15—17-jugis (nec 4—7-jugis), pedunculis 15—30 cm (nec 4—9 cm) longis, racemis longis (nec abbreviatis) satis recedit.

Perennis, 60 cm alta. Radix palaris brunnea, longe descendens, 4—6 mm diametro. Caulis nanus, caespitosus, ramosissimus, glabriusculus vel parce patenter albo-villosus. Folia 11—20 cm longa, rhachidibus supra profunde sulcatis, sparse patenter albo-villosis, interdum ad foliolorum insertionem glandulam unam alteramve flavidam gerentibus; stipulae herbaceae, ovatae, 5—9 mm longae, liberae, apice acuminatae, patule albo-villosae; foliola 15—17-juga, ovata ellipticae, 10—17 mm longa, 3—7 mm lata, apice apiculata, basi rotundata, utrinque parce subpatule albo-villosa. Racemus longus, multiflorus; pedunculus 15—30 cm longus, striatus, sparse patule albo-villosus; bractea anguste lanceolata, 6—10 mm longa, c. 2 mm lata, sparse patule albo-villosa; flos ignotus; calyx campanulatus, c. 7 mm longus, c. 3 mm latus, parce patenter albo-villosus, dentibus subulatis 2—3 mm longis; corolla in sicco flavida; vexillum subovato-orbiculatum, 13 mm longum, 7 mm latum, apice rotundatum, ungue 6 mm longo: alae oblongae anguste obovatae, c. 11 mm longae, 2 mm latae, apice oblique retusae, auriculis 1 mm longis, unguibus 6 mm longis; carinae oblongae, 10 mm longae, 2 mm latae, apice cum mucrone 1 mm longo, auriculis 1 mm longis, unguibus 6 mm longis. Legumen chartaceum, ovatum, subturgidum, 10—12 mm longum (cum rostro recurvo 3 mm longo), 4—5 mm latum, apice acutum, adpresse albo- et brunneo-pubescent, non septatum, uniloculare, stipite c. 1.5 mm longo. Semina compresse orbiculato-reniformia, c. 1.3 mm longa,

c. 1.5 mm lata, brunnea. Fr. VIII.

Gansu (甘肃): Jonê (卓尼), Tao He (洮河), ad pedes montium in fruticetis, prope viam, 2500—2600m alt. Aug. 24 1973, G. L. Chu, C. J. Wang et C. G. Yuan (朱格麟、王庆瑞、袁崇贵) 15308 (holotypus fructifer, in Herb. Inst. Bot. Colleg. Norm. Bor.-Orient. conservatur 果模式存西北师范学院植物研究所标本室)。

本种与阿赖棘豆 *O. alajica* Drob. 的区别在于植株较高(高不为 5—10 厘米), 小叶 15—17 对(不是 4—7 对), 总花梗长 15—30 厘米(长不为 4—9 厘米)和长总状花序(不是短缩的总状花序)等。

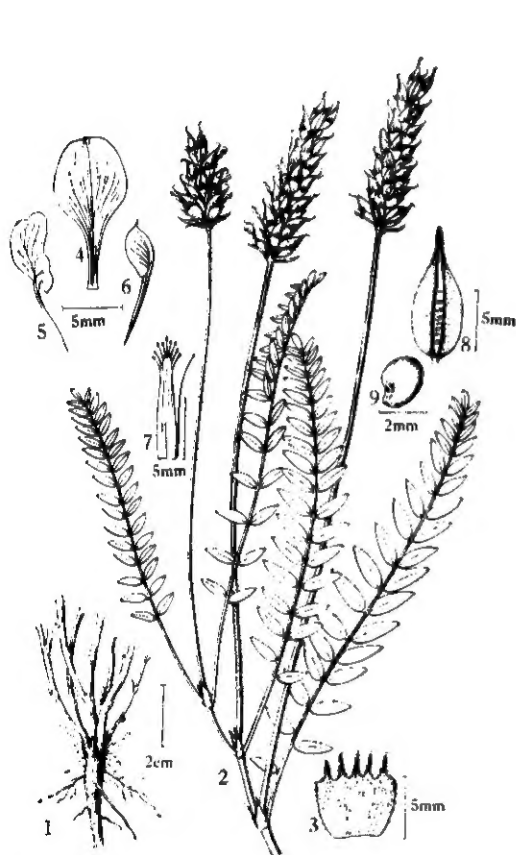


图1 长梗棘豆 *Oxytropis longipedunculata* C. W. Chang 1.根的一部分 Portion of root; 2.植株的一部分 Portion of plant; 3.花萼展开 Dissection of calyx; 4.旗瓣 Standard; 5.翼瓣 Wing; 6.龙骨瓣 Keel; 7.雄蕊 Stamens; 8.荚果 Legume; 9.种子 Seed.

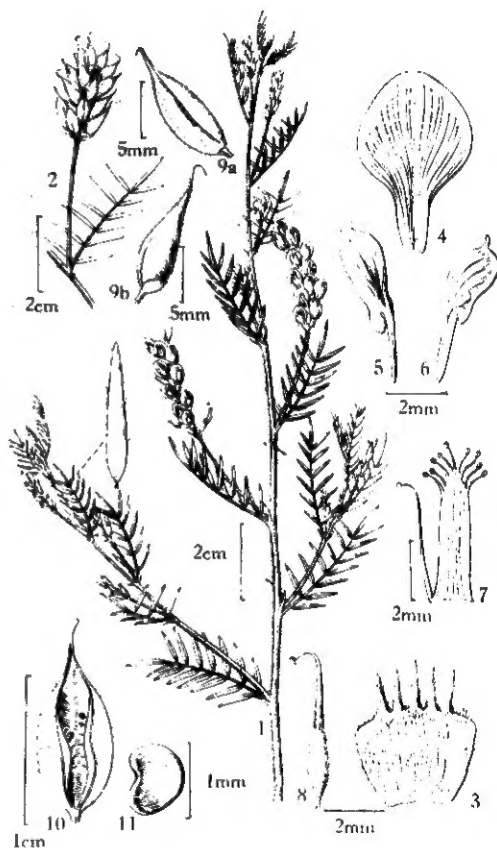


图2 陇东棘豆 *O. ganningensis* C. W. Chang 1.植株的一部分 Portion of plant; 2.果序 Inflorescence; 3.花萼展开 Dissection of calyx; 4.旗瓣 Standard; 5.翼瓣 Wing; 6.龙骨瓣 Keel; 7.雄蕊 Stamens; 8.雌蕊 Gynoeceium; 9a.-9b.荚果 Legume; 10.荚果(纵剖) Long-section of legume; 11.种子 Seed.

陇东棘豆 新种 图2

Oxytropis ganningensis C. W. Chang, sp. nov. (Sect. *Ortholoma* Bge.).

Similis *O. brachycarpae* Vass., a qua caulibus majoribus, foliolis 3—7-jugis, racemo

spiciformi, floribus minoribus bene distinguitur.

Perennis, 35—50 cm alta. Radix palaris, crassa. Caulis erectus, tenuis, decumbens, ramosus, glabriusculus vel parce subpatenter albo-pilosus. Folia 2—4 cm longa; petiolus c. 2 mm longus, ut rhachis parce denseve subpatentim albo-pilosus; stipulae subulatae triangularesve, 2—5 mm longae, liberae, acuminatae, parce subpatentim albo-pilosae; foliola 3—7-juga, oblongo-linearia linearivae, 5—14 mm longa, 1—2 mm lata, apice acuta, basi angustata vel rotundata, margine interdum paulo involuta, utrinque parce subpatule albo-pilosa, brevissime petiolulata vel subsessilia. Racemus spiciformis, axillaris, floribundus, 1.5—3.5 cm longus; pedunculus 1.5—3 cm longus, dense adpresse pubescens; bractea subulata, 2—3 mm longa, dense adpresse pubescens; flos 6—9 mm longus; pedicellus c. 1 mm longus; calyx tubuloso-campanulatus, 5 mm longus, saepe plus minusve violaceus, parce adpresse albo-pilosus, dentibus subulatis 1—2 mm longis; corolla caerulea; vexillum suborbiculatum, 6—7 mm longum, 4 mm latum, apice rotundatum, ungue brevi et lato; alae oblique oblongae, c. 5.5 mm longae, 1.5 mm latae, apice oblique obtusae, auriculis brevibus, unguibus linearibus 2.5 mm longis; carinae 5.5 mm longae, c. 1.5 mm latae, apice cum mucrone 0.5 mm longo; ovarium subellipticum, adpresse albo-pubescens, cum 10—12 ovulis. Legumen subcoriaceum, ellipticum, turgidum, 10—12 mm longum (cum rostro recurvo 2.5—3 mm longo), 3—4 mm latum, apice acutum, subpatentim pubescens, stipitatum vel subsessile, ad suturam ventralem septo c. 0.5 mm lato praeditum, imperfecte biloculare. Semina orbiculato-reniformia, c. 1 mm longa, brunea. Fl. VIII—IX, Fr. IX—X.

Gansu (甘肃): Heshui (合水) Lianjiabian (连家砭) in pratis, Aug. 17 1964, C. W. Chang (张振万) 2951 (holotypus florifer, WUG 花模式存西北植物研究所); eodem loco (同地), Oct. 1964, C. W. Chang 2878.

Ningxia (宁夏): Guyuan (固原) Zhangjiashan (张家山), in decliviatibus, Aug. 1956, 1st. Group Gansu. Comp. Exped. Huang He, Acad. Sin. (中国科学院黄河综合考察队甘肃一队) 2401.

本种与短荚棘豆 *O. brachycarpa* Vass. 的区别在于植株较高大, 小叶 3—7 对, 穗形总状花序和较小的花等。

六盘山棘豆 新种 图 3

Oxytropis ningxiaensis C. W. Chang, sp. nov. (Sect. *Ortholoma* Bge.) — *O. isopinii* Wang et Tang in sched.

Species haec habitu valde similis *O. giraldui* Ulbr., sed a qua legumine membranaceo, subgloboso, 17 mm longo, 7—9 mm diametro, imperfecte biloculati bene differt.

Perennis, 15—21 cm alta. Radix palaris longe descendens, 5 mm diametro. Caulis caespitosus, ramosissimus, gracilis, glabriusculus vel parce patenter albo-pilosus. Folia 4—7 cm longa, rhachidibus parce albo-pilosis; stipulae late triangulares, 3—5 mm longae, ad basin inter se connatae, petiolo non adnatae, acutae, patenter albo-pilosae; foliola 5—11-juga, ovata, elliptica vel oblonga, 5—9 mm longa, 2—4 mm lata, apice obtusa apiculata, basi rotundata, supra parce albo-strigosa, subtus subdense albo-strigosa, petiolulis brevissimis praedita. Racemus densior, post anthesin paulo elongatus; pedunculus 3—9 cm longus, pilis albis patulis parce vestitus; bractea anguste triangularis, 3—5 mm longa, pedicello longior, parce patenter albo-pilosa; flos 10—15 mm longus; calyx campa-

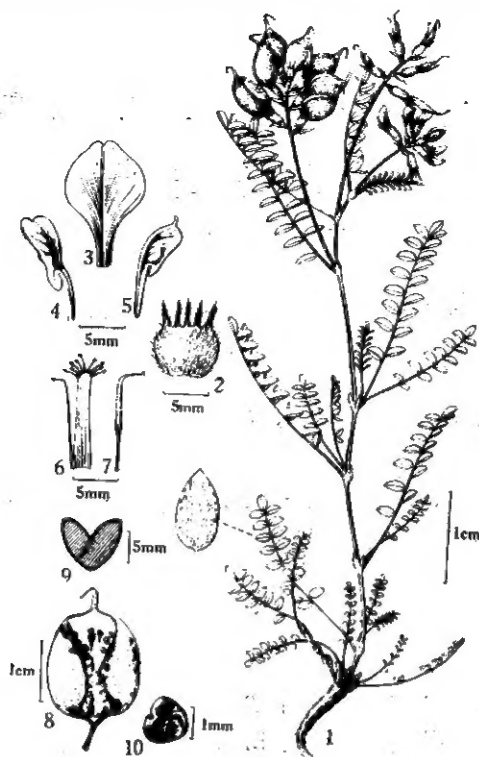


图3 六盘山棘豆 *O. ningxiaensis* C. W. Chang 1.植株 Plant; 2.花萼展开 calyx opened; 3.旗瓣 Standard; 4.翼瓣 Wing; 5.龙骨瓣 Keel; 6.雄蕊 Stamen; 7.雌蕊 Gynoecium; 8.荚果纵剖 Vertical section of legume; 9.荚果横切面 Transverse section of legume; 10.种子 Seed.

nulatus, 7—8 mm longus, c. 3 mm latus, dense nigre albeque pubescens, dentibus subulatis 2—3 mm longis; corolla caerulea vel purpurea e collectore; vexillum rotundatum, 13—14 mm longum, 8 mm latum, apice emarginatum, basi in unguem 4 mm longum sensim angustatum; alae oblongae 14 mm longae, 3 mm latae, apice paullo latae emarginatae, auriculis 2 mm longis, unguibus, 5 mm longis; carinae oblongae, 12 mm longae, 3 mm latae, auriculis 1 mm longis, unguibus 6 mm longis, apice cum mucrone spiniformi curvato 1 mm longo; ovarium lineare, parce albo-strigosum, cum 10—12 ovulis, stylo abrupte inflexo, stipite 3 mm longo. Legumen membranaceum, subglobosum, 17 mm longum (cum rostro 3 mm longo), 7—9 mm diametro, parce nigro-strigosum, stipitatum, stipite c. 5 mm longo, ventre profunde sulcatum, ad suturam ventralem septo angustissimo ad 0.75 mm lato praeditum, imperfecte biloculare. Semina orbiculato-reniformia, c. 1.5 mm longa, brunnea. Fl. VII, Fr. VIII.

Ningxia (宁夏): Guyuan (固原), Heshangpu (和尚铺), Liupan Shan (六盘山), in rupibus prope viam alpinorum, 2720m alt. Aug. 6 1953, T. P. Wang (王作宾) 17139 (holotypus WUG); eodem loco, Aug. 8 1956, 1st. Group Gansu. Comp. Exped. Huang He, Acad. Sin. 2184; Jingyuan (泾源), Longdegou (隆德沟), 2320m alt. July 31 1953, T. P. Wang 17042; eodem loco, 2500m alt. T. P. Wang 13543; eodem loco, 2400m alt. T. P. Wang 17065.

本种与华西棘豆 *O. giraldui* Ulbr. 的区别在于荚果膜质, 近球形, 长 17 毫米, 直径 7—9 毫米, 不完全 2 室。